

## Resume

**Dr. Sumit Kishan Arora**

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### **OBJECTIVE**

To associate with innovative as well as challenging environment of pharmaceutical science, where my skill could be optimally used and to contribute in working atmosphere of organization to enhance my knowledge basic and skills.

### **EDUCATIONAL QUALIFICATION**

<b>Degree</b>	<b>Year</b>	<b>University</b>	<b>Result</b>
Doctor of philosophy (PhD)	2014	Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur.	<b>Awarded on 30/08/2014</b>
M. Pharm.	2008	Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur.	82.77 % <b>(Gold Medalist)</b>
B. Pharm.	2006	J.L. Chaturvedi College of Pharmacy, R. T. M. Nagpur University, Nagpur.	77.09 % <b>(2<sup>nd</sup>Univ. topper)</b>

### **RESEARCH SPECIALIZATION AND PHD RESEARCH TOPIC**

- Pharmacognosy and Phytochemistry
- PhD Research Topic: "**Pharmacognostic and Pharmacological studies of *Chenopodium album* and *Sesbania grandiflora* as NF kappa B inhibitor**"
- Guide: Dr.P.R.Itankar

### **➤ CURRENT STATUS**

- Working as AssistantProfessor at Gurunanak College of Pharmacy, Nari road, Nagpur from 27<sup>th</sup> Jan 2016 to till date.

## HONORS, AWARDS AND OTHER ACHIEVEMENTS

- Awarded with **Excellent Author** for Outstanding achievement from Digital Chinese Medicine (Elsevier) Hunan University for having most cited article published in the past 3 years, contribution as Keynote Speaker and publications.
- Received **Certificate of Appreciation** for Designing and Framing Syllabus for Add on Certificate Course on the topic “**Application of Computational Techniques in Drug Design and Development**” from Principal and Management of Gurunanak College of Pharmacy, Nagpur
- Awarded with **Best Participant Award** and received **Award of Honor** from the organizing committee during AICTE Sponsored two weeks Faculty **Development Program (FDP)** on “Optimization Techniques and Recent Advances in Drug Delivery System” held on 10 - 22 June 2019 at ISF College of Pharmacy, Moga, Punjab.
- **Received Best Poster Award** for Poster presented on “Herbomineral Formulation for the treatment of HIV” in the National Conference entitled “HIV-AIDS and Herbal Drug Research–Global Perspective” organized by J L Chaturvedi College of Pharmacy, Nagpur on 2<sup>nd</sup> and 3<sup>rd</sup> November 2007.
- Awarded with Senior Research Fellowship from **Council of Scientific & Industrial Research (CSIR)**, New Delhi, India to work in the field of herbal drug research, 2012.
- Qualified **GATE-2006** with 442 Gate score and 518 all India rank.
- Received **Research Fellowship from UGC**, New Delhi during M. Pharm.
- Always been **University topper** in all the years of B.pharm and M.pharm.
- Received **Gold Medal** from R. T. M. Nagpur University in the Convocation held on 25<sup>th</sup> July 2009 for the above achievements.

## TEACHING EXPERIENCE

- Two year **Approved teaching experience** at Dadasaheb Balpande College of pharmacy, Besa for the **academic year 2008-10**.
- Three year **Contributory teaching experience** at Department of Pharmaceutical Sciences, R. T. M. Nagpur University from **Sept 2010 to May 2013**.
- Two and half year **teaching experience** as lecturer at Gurunanak Technical Institute (Diploma in Pharmacy), Nari road, Nagpur from **Aug 2013 to 26 Jan 2016**.
- One and Half year experience as Assistant Professor at Gurunanak College of Pharmacy, Nari road, Nagpur from **27<sup>th</sup> Jan 2016 to till date**.

## BOOK PUBLICATIONS

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- Book published entitled "**Pharmacognosy of Medicinal Plants**" comprises of Pharmacognostic account of 54 medicinally important crude drugs. Special feature of this book is special emphasis on cultivation method presented in the form of flowchart, diagrammatic representation labelling all microscopical features in an image form, uses of crude drug along with their mechanism of action shown in the flowchart and different characters for the identification of adulteration. The book will be good for reference to all pharmacy students, for teachers of Pharmacy Graduate and Diploma institutes.
- Book published entitled "**Concise course in Pharmacognosy and Phytochemistry I**" the book is designed as per the new syllabus introduced by Pharmacy Council of India for B. Pharm Fourth Semester. This book simplified the content of syllabus by presenting it in easy and lucid language. **Special feature of this book which gives it an edge over other available books is its emphasis on content covering the theory in a simplified manner which is easy to remember.** The inclusion of Question Bank covering multiple choices, short and long questions make this book a complete reference book of subject Pharmacognosy and phytochemistry I. The book will be good for reference to all pharmacy students, for teachers of Pharmacy Graduate and Diploma institutes.

## PUBLICATIONS

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### RESEARCH PUBLICATIONS

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### INTERNATIONAL

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- Research paper published as "In silico study to recognize novel converting enzyme-I inhibitors by 2 D QSAR and constraint based molecular simulations" in **Journal of Biomolecular structure and Dynamics**, Vol., 2023,
- Research paper published as "Investigation of Neolamarckia cadamba phytoconstituents against SARS-COC-2 3CL Pro: An in silico approach" in **Orbital: The Electronic Journal of Chemistry**, Vol. 15 (1), 2023, 49-56.
- Research paper published as "2D-QSAR Modeling of Chalcone Analogues as Angiotensin Converting Enzyme Inhibitor" in **Biointerface Research in Applied Chemistry**, Vol. 13 (4), 2023, 1-23.
- Research paper published as "Exploring the phytoconstituents targeting TNF- $\alpha$  as potential lead compounds to treat inflammatory diseases: an in-silico approach" in **Journal of Digital Chinese Medicine (Elsevier)**, Vol. 5 (3), 2022, 264-275.

- Research paper published as “In silico prediction of phytoconstituents from *Ehretia laevis* targeting TNF- $\alpha$  in arthritis” in ***Journal of Digital Chinese Medicine (Elsevier)***, Vol. 4 (3), 2021, 180-190.
- Research paper published as “Evaluation of pancreatic regeneration activity of *Tephrosia purpurea* leaves in rats with streptozotocin-induced diabetes” ***Journal of Traditional and Complementary Medicine***, Vol. 11(5), 2021, 435-445 (**Impact Factor 4.221**)
- Research paper published as “Antioxidant and Cognitive Enhancing Activities of *Sargassum ilicifolium* and *Padina tetrastromatica* in Scopolamine Treated Mice” in ***Journal of Biologically Active Products from Nature (Taylor and Francis)*** Vol. 11 (1), 2021, 11-21.
- Research paper published as “Exploring the active constituents of *Oroxylum indicum* in intervention of novel coronavirus (COVID-19) based on molecular docking method” in ***Network Modeling Analysis in Health Informatics and Bioinformatics (Springer)*** Vol. 10 (1), 2021, 1-12.
- Research paper published as “Prospecting for *Cressa cretica* to treat COVID-19 via in silico molecular docking models of the SARS-CoV-2” in ***Journal of Biomolecular Structure and Dynamics***, Jan 15, 2021, 1-9 (**Impact Factor: 3.392**)
- Research paper published as “Identification of Potential Flavonoid Inhibitors of the SARS-CoV-2 Main Protease 6YNQ: A Molecular Docking Study” in ***Journal of Digital Chinese Medicine (Elsevier)***, Vol. 3 (4), 2020, 239-248.
- Research paper published as “Extraction, isolation and identification of flavonoid from *Chenopodium album* aerial parts” in ***Journal of Traditional and Complementary Medicine***, Vol. 8 (4), 2018, 476-482 (**Impact Factor 4.221**).
- Research paper published as “Involvement of NF $\kappa$ B in the antirheumatic potential of *Chenopodium album* L. aerial parts extracts” in ***Journal of Ethnopharmacology***, Vol.155(1), 2014, 225-228 (**Impact Factor: 5.195**)
- Research paper published as “Evaluation of antidiabetic antihyperlipidemic and pancreatic regeneration, potential of aerial parts of *Clitoria ternatea*” in ***Brazilian Journal of Pharmacognosy***, 23, 2013, 819-829 (**Impact Factor: 2.01**)
- Research paper accepted for Conference proceedings “Evaluation of Pancreatic Regeneration, Antidiabetic and Antihyperlipidemic Potential of *Clitoria ternatea*” in 12th International Congress of Ethnopharmacology “Traditional Medicines and Globalization- the Future of Ancient System of Medicine” (ISE), Kolkata, India. (**Equivalent to *J. of Ethnopharmacology cit. index***)

- Research paper published as “Simultaneous Quantitative analysis of Olmesartan Medoxomil and Amlodipine besylate in plasma by HPLC technique”, in ***Journal of Young Pharmacists*, Vol. 4, 2012.**
- Research paper published as “Antidiabetic potential of unripe *Carissa carandas* fruit extract”, in ***Journal of EthnoPharmacology*, Vol.135, 2011, 430- 433(Impact Factor: 5.195)**

## NATIONAL

- Research paper published as “Polyphenol rich extract from *Sesbania grandiflora* (L.) Pers. bark reduces rheumatism by mediating the expression of NF kappa B in rats” in ***Indian Journal of Experimental Biology*, Vol. 59, 2021, 44-53. (Impact 0.783)**
- Research paper published as “Histological study, Phytochemical screening and TLC studies of *Sesbania grandiflora*” in ***International Research journal of Biological sciences*, 9 (3), 2020, 1-5.**
- Research paper published as “Phytochemical Screening and HPTLC study of *Padina tetraströmatica* (Hauck)” in ***International journal of Ayurvedic Medicine* 11 (2), 2020, 306-309.**
- Research paper published as “Phytochemical screening and TLC studies of different extracts of *Chenopodium album*” in ***Journal of Ayurvedic and Herbal Medicine* 6 (1), 2020, 15-20.**
- Research paper published as “Phytochemical screening and anticonvulsant activity of *Sargassum ilicifolium* (brown algae) in mice” in the ***Journal of Phytopharmacology*, Vol. 7 (1), 2018, 25-28.**
- Research paper published as “Antidiabetic Potential and its Relationship with Polyphenol and Degree of Polymerization in *Acalypha indica* Linn Leaves”, in ***Journal of Homeopathy & Ayurvedic Medicine*, Vol.1, 2011.**
- Research paper published as “Determination of Polyphenol content and free radical scavenging activity of successive extracts of *Flemingia strobilifera*”, in ***Advances of Pharmacology and toxicology*, Vol. 10 (1), 2009.**

## REVIEW ARTICLES

- Review article published as “A Brief Review on Lysozyme’s Pharmacology and Drug-Carrying Capacity”, in ***Research Journal of Pharmacy and Technology*, 15(12), 2022, 5886-4**

- Book Chapter Published as “Recent Techniques in Isolation of Nutraceuticals from Plants, in the book Nutraceutical delivery Systems”, Edited by Pankaj Dangre and Debarshi kar Mahapatra, first edition 2022, **Apple Academic Press**. EBook ISBN 9781003189671.
- Review article published as “Ethnomedicinal and Pharmacological potential of marine macroalgae for CNS disorders: An overview” in *Journal of Medicinal Herbs and Ethnomedicine* 8(1), 2022, 1-6.
- Review article published as “Novel Drug Delivery System of Phytopharmaceuticals: A Review” in *Current Traditional medicine* 7(5), 2021, 73-86.
- Review article published as “Challenges and Progress in Vaccine Development for COVID-19 Coronavirus (SARS-CoV-2): A Review” in *The Open Covid Journal* 1 (1), 2021, 65-76.
- Review article published as “Bauhinia purpurea: An Updated Pharmacological Profile” in *Journal of Ayurvedic and Herbal Medicine* 6 (2), 2020, 81-85.

#### PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES

- Poster presented on “Exploration of *Neolamarckia cadamba* phytoconstituents as potential inhibitors of SARS-CoV-2 3CL Pro: An in silico approach” in the **Indian Pharmaceutical Congress held at Nagpur during 20-22 January 2023**.
- Oral presentation entitled “Antirheumatic potential of *Chenopodium album* aerial parts extracts: Modulation by NFκB” delivered in the **2<sup>nd</sup> International congress of Ethnopharmacology**, held on Feb. 20-22, 2015 at Nagpur.
- Poster presented on “Modern Drug Delivery System: Aid to maximize the utilization of Plant Constituents” in the National Conference on “Emerging Trends in Advanced Drug Delivery System” organized by Sharad Pawar College of Pharmacy, Nagpur. On 8<sup>th</sup> and 9<sup>th</sup> December 2007.
- Poster presented on “Herbomineral Formulation for the treatment of HIV” in the National Conference entitled “HIV-AIDS and Herbal Drug Research–Global Perspective” organized by J L Chaturvedi College of Pharmacy, Nagpur on 2<sup>nd</sup> and 3<sup>rd</sup> November 2007 and **Received Best Poster Award**.
- Poster presented on “Evaluation of Anti-inflammatory and Antioxidant activity of ethanolic extracts of *Echolium lineanum* Kurz. in the National Conference on “Quality Perspective of Herbal Cosmetics” organized by Ravishankar Shukla University, Raipur on 8<sup>th</sup> to 9<sup>th</sup> September 2007.

- Poster presented on “Study of Vegetables to fight against Cancer” in the National Conference on “Emerging trends in medicinal plants and their Biotechnological Advances” organized by Department of Botany, Dr. Ambedkar College, Nagpur on 5<sup>th</sup> and 6<sup>th</sup> January 2007.
- Poster presented in “Inter-Collegiate Research Festival Aviskar 2006” on “Motic Images plus 2.0 Software” organized by Rashtrasant Tukadoji Maharaj Nagpur University at Laxminarayan Institute of Technology, Nagpur held on 3<sup>rd</sup> and 4<sup>th</sup> January 2007.

#### **FACULTY DEVELOPMENT PROGRAMME & SHORT TERM TRAINING PROGRAMME**

- Attended AICTE Sponsored one week **online Short-term training Programme (STTP)** on “To train the trainers for entrepreneurship development in the field of pharmaceuticals” held on 7<sup>th</sup> to 12<sup>th</sup> December 2020 at Gurunanak College of Pharmacy, Nagpur.
- Attended AICTE Sponsored one week **online Short-term training programme (STTP)** on “Outcome Based Pedagogical methods for Effective Teaching Learning and Accreditation” held on 5<sup>th</sup> to 10<sup>th</sup> November 2020 at Institute of Pharmaceutical Education and Research, Wardha.
- Attended AICTE Sponsored six days **online Short-term training programme (STTP)** on “Training in excellence with Ethics and Behavioral Sciences” held on 17 - 22 August 2020 at ISF College of Pharmacy, Moga, Punjab.
- Attended Two Days National Level **e-Faculty Development Program (FDP)** on “E- Learning and ICT Tools for Effective Teaching and Learning ” Organized by Green Heaven Institute of Management and Research in association with Bajaj Steel Industries Ltd., on 29<sup>th</sup> & 30<sup>th</sup> June 2020.
- One Week National Level **e-Faculty Development Programme (FDP)** on “Comprehensive Quality Initiatives for Higher Education in Pandemic Era” organized by Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli, Gujarat during 26 – 30 May 2020.
- Attended three days **e-Faculty Development Programme (FDP)** on “**Startup and Entrepreneurship** ” organized by OPEX India during 25<sup>th</sup> to 27<sup>th</sup> May 2020.
- Attended AICTE Sponsored two weeks **Faculty Development Program (FDP)** on “Optimization Techniques and Recent Advances in Drug Delivery System” held on 10 - 22 June 2019 at ISF College of Pharmacy, Moga, Punjab.

Awarded with **Best Participant Award** and received **Award of Honor** from the organizing committee.

- Attended **Short term training programme (STTP)** for NBA Accreditation held at Gurunanak College of Pharmacy, Nagpur from 2<sup>nd</sup> Oct to 4<sup>th</sup> Oct 2015.
- Attended AICTE sponsored Two weeks **Faculty development programme ((FDP)** on “Recent trends in Novel Drug Delivery System” organized by Sharad pawar college of pharmacy, Nagpur, during 16/06/2014 to 28/06/2014.

#### WEBINAR ATTENDED

- Attended Online National Workshop on “**India’s Dominance in combating Emerging Health Challenges through discovery of Therapeutic Armamentarium**” organized by Sandip University, Nashik during 15 -16<sup>th</sup> May 2020.
- Participated in a webinar on **A Practical Guide to QbD Product Development** organized by APTI, India on 2<sup>nd</sup> May 2020.
- Attended Online National Workshop on “**Computer Aided Drug Designing**” organized by Priyadarshini J. L. college of Pharmacy, Nagpur in association with Quick learn 360 held on 1<sup>st</sup> May 2020.

#### TRAINING

- Industrial practical training done at **UNIVERSAL MEDICAMENTS PVT. LTD. Shantinagar, Nagpur** during which, got exposure to important aspects of manufacturing and analysis process involved.
- Completed three days Training Programme on **Intellectual Property Rights** organized by Intellectual Property Training Institute, Nagpur held from 21 to 23 August 2007.

#### GUEST LECTURE DELIVERED & EVALUATOR

- Delivered a session on “**Reference Management Software: Zotero**” at MBA Department, C P and Berar College, Nagpur as a part of Pre PhD Course Work on 04<sup>th</sup> June 2023.
- Delivered a session on “**Various Aspects of Competitive examination: GRE, TOEFL, GPAT etc. with an additional workshop on Zotero**” at Nagpur College of Pharmacy, Koradi on 3<sup>rd</sup> May 2023.
- Delivered a session on “**Reference Management Software: Zotero**” at Agnihotri College of Pharmacy, Wardha on 17<sup>th</sup> April 2023.



- Invited as an **Evaluator for Best Research Project Competition** under UG, PG and PhD category organised by Dadasaheb Balpande College of Pharmacy, Nagpur on 11<sup>th</sup> March 2023.
- Delivered a talk on "**Zotero: Reference Management Software**" at LAD Cosmetic Science College Nagpur on 10<sup>th</sup> March 2023.
- Invited as Keynote Speaker for "**Motivational talk for Competitive Examination Focusing on GPAT**" at Shree Sainath College of Pharmacy, Dawlameti, Nagpur on 17 Feb 2023.
- Delivered a talk on "**Zotero: Reference Management Software**" at Research Vidya Platform created by Dr. Ashish Linge Sir on 28<sup>th</sup> January 2023.
- Invited as Speaker to Deliver the Keynote report in the **6<sup>th</sup> Academic Symposium on Digital Chinese Medicine and its 5<sup>th</sup> Anniversary Commemorative Conference in Changsha, Hunan, China** on 11<sup>th</sup> December 2022.
- Shared strategic plan in regards to **GPAT Examination** with the students of Taywade College of Pharmacy, Koradi on 2<sup>nd</sup> December 2022.
- Delivered a session on "**Reference Management Software: Mendeley and Zotero**" at MBA Department, C P and Berar College, Nagpur organised Pre PhD Course Work on 30<sup>th</sup> November 2022.
- Guest Lecture delivered at Dr. Arun Motghare College of Pharmacy, Kosara and got an opportunity to interact with talented students on topic "**Guidance for the Preparation of GPAT 2023 Examination and Higher Education in Foreign Countries**" on 12<sup>th</sup> Nov 2022.
- Invited as Keynote Speaker for two days webinar on "**Preparation Strategies towards GPAT 2023**" at SVKM Institute of Pharmacy, Dhule on 13<sup>th</sup> and 14<sup>th</sup> Oct 2022.
- Invited as an expert for a talk on "**Effective Manuscript Writing, Mendeley Software and Plagiarism Checker**" at Agnihotri College of Pharmacy, Wardha on 16<sup>th</sup> April 2022.
- Invited as Keynote Speaker for webinar on "**Last Day Preparation Strategies for GPAT 2022**" at SVKM Institute of Pharmacy, Dhule on 27<sup>th</sup> March 2022.
- Invited as **Evaluator for Poster Session in the Science Festival** organized by Priyadarshini J L Chaturvedi College of Pharmacy, Nagpur on 08<sup>th</sup> March 2022.
- Delivered a talk on "**Effective Manuscript Writing, Mendeley Software and Plagiarism Checker**" at Gurunanak College of Pharmacy organized Certificate Course on "Effective Project Writing and Presentation Skills" from 21<sup>st</sup> Feb to 26<sup>th</sup> Feb 2022.

- Invited as Keynote Speaker for two days webinar on **"GPAT 2022 preparation and tricks to solve MCQs"** at Shri Rawatpura Sarkar Institute of Pharmacy, Durg, Chattisgarh on 11<sup>th</sup> and 12<sup>th</sup> Feb 2022.
- Delivered an invited talk on **"GPAT 2022 Preparation and Tricks to Solve the MCQs"** at Terna Public Charitable Trust's College of Engineering, Department of Pharmacy, Osmanabad on 5 Feb 2022.
- Invited as Guest Speaker for Two day Webinar on **"Orientation Programme on GPAT 2022 Preparation and Tricks to Solve the MCQs"** at Shree Sainath College of Pharmacy from 28 - 29 Jan 2022.
- Guest lecture delivered on **"How to remember structure of Pharmaceutical Chemistry and tricks to solve MCQ related thereof"** held on 24th Feb 2021 at RJSPM'S Institute of Pharmacy Dudulgaon, Pune through an online platform.
- Guest lecture delivered on **"How to use Mendeley: Reference management software"** for Quick Learn 360 You Tube Channel, Nagpur on 16/5/2020 through an online platform.
- Guest lecture delivered on **"Recent trends in Drug Discovery"** for first year M. D. student at Govt. Ayurvedic College, Nagpur on 9/4/2014.

#### **INTRUMENTS HANDLED**

- UV-Spectrophotometer.
- HPTLC (LINOMAT APPLICATOR AND WINCATS SOFTWARE).
- Motic Image Plus 2.0 Microscope.
- Flash Chromatography.

#### **COMPUTER KNOWLEDGE**

- Knowledge of M.S office, Reference Citation Manager (**Mendeley and Zotero**), **Plagiarism, Chimera and Discovery Studio Software's**
- Completed certificate course of MS-CIT.

#### **EXTRA CURRICULAR ACTIVITIES**

- Won prizes at various competitions held during annual social gathering.

## PERSONAL PROFILE

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Permanent Address : "Vaishnavi Villa", Plot No. 232, Near Shastri nagar primary school, Old  
Bagadganj, Nagpur

Date of Birth : 13-July-1984

Gender : Male

Languages known : English, Hindi, Marathi

Marital Status : Married.

I, the undersigned, certify that all the information provided by me is true to the best of my knowledge and belief.

**Date:**

**Place:** Nagpur

(Sumit K. Arora)